

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005496

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F24F12/00 F24F7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F24F F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | US 5 832 992 A (VAN ANDEL ELEONOR) 10 November 1998 (1998-11-10) cited in the application abstract; figure 1 --- | 1-9 |
| A | AT 388 228 B (AL KO KOBER GES M B H) 26 May 1989 (1989-05-26) abstract --- | 1-9 |
| A | DE 100 10 817 A (MIG MITTELSTANDS ENTWICKLUNGSG) 18 October 2001 (2001-10-18) abstract --- | 1-9 |
| A | US 2003/042012 A1 (PEARSON FREDERICK J) 6 March 2003 (2003-03-06) abstract --- -/-- | 1-9 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

5 August 2004

Date of mailing of the international search report

17/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Valenza, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005496

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | DE 202 02 538 U (SCHUECO INTERNAT KG) 25 April 2002 (2002-04-25) abstract ----- | 1-9 |

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005496

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|----------------------------|---------------------|
| US 5832992 | A | 10-11-1998 | NL 9301439 A | 16-03-1995 |
| | | | AT 175493 T | 15-01-1999 |
| | | | AU 7823094 A | 14-03-1995 |
| | | | DE 69415814 D1 | 18-02-1999 |
| | | | DE 69415814 T2 | 20-05-1999 |
| | | | DK 714500 T3 | 30-08-1999 |
| | | | EP 0714500 A1 | 05-06-1996 |
| | | | ES 2126154 T3 | 16-03-1999 |
| | | | GR 3029704 T3 | 30-06-1999 |
| | | | JP 9512091 T | 02-12-1997 |
| | | | JP 3369567 B2 | 20-01-2003 |
| | | | WO 9505570 A1 | 23-02-1995 |
| AT 388228 | B | 26-05-1989 | AT 55186 A | 15-10-1988 |
| DE 10010817 | A | 18-10-2001 | DE 10010817 A1 | 18-10-2001 |
| US 2003042012 | A1 | 06-03-2003 | NONE | |
| DE 20202538 | U | 25-04-2002 | DE 20202538 U1 | 25-04-2002 |